

A premium grade heat-shrinkable tubing made with a 3:1 shrink ratio to cover a wide range of substrates easily with a small range of sizes to keep inventory costs low.

Outstanding all round performance, excellent physical and electrical performance, good chemical and solvent resistance, flexible.

RNF-3000 premium grade 3:1 shrink ratio polyolefin based heat-shrinkable tubing offers an outstanding overall balance of properties. The product has a wide range of both military and industrial approvals.

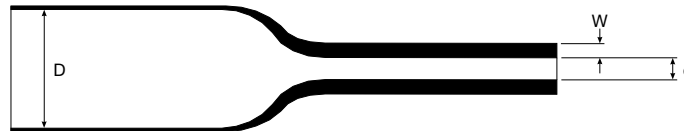
RNF-3000 tubing possesses a unique blend of physical, chemical and electrical properties and is suitable for a wide range of applications. The 3:1 shrink ratio allows for installation onto a wide range of substrate sizes with a small number of tubing sizes so

inventory costs can be kept low. Used extensively in military applications for lightweight harness jackets, insulation, color coding, identification, protection against fluids and provides mechanical strength.

Temperature rating

Operating temperature range:	-55°C to +135°C
Minimum shrink temperature:	+80°C
Minimum full recovery temperature:	+120°C

Ordering information



Inside diameter		Wall thickness		Standard package		Ordering description
D (min)	d (max)	W (nom)	Recovered after heating	1.22m Length quantity	Spool quantity	
Expanded as supplied	Recovered after heating	Recovered after heating				
mm	mm	mm	mm	m	m	
1.5	0.5	0.45		60	300	RNF-3000-1.5/0.5-color code
3.0	1.0	0.55		60	150	RNF-3000-3/1-color code
4.5	1.5	0.55		60	150	RNF-3000-4.5/1.5-color code
6.0	2.0	0.65		60	75	RNF-3000-6/2-color code
9.0	3.0	0.75		30	75	RNF-3000-9/3-color code
12.0	4.0	0.75		30	75	RNF-3000-12/4-color code
18.0	6.0	0.85		30	75	RNF-3000-18/6-color code
24.0	8.0	1.00		30	30	RNF-3000-24/8-color code
39.0	13.0	1.15		12	30	RNF-3000-39/13-color code

Standard colors

Standard Color	Clear	Black	Red	Yellow	Green	Blue	White
Code	X	0	2	4	5	6	9
Non Standard Color	Brown	Orange	Violet	Grey			
Code	1	3	7	8			

Approvals

*UL File E35586 Def Stan 59-97 Type 2b

*CSA LR31929 BS 4G 198 Part 3 11B

VG 95343 Part 5 Type A and B

VDE 0341/Pt 9005 Type A and B

*Not clear product (X).

Performance

Test	Test method	Test requirement
Heat Ageing:	ISO 188 (168h at 175°C)	Ultimate elongation: 150% (min)
Corrosion resistance:	ASTM D2671 (16h at 175°C)	No corrosion of mirrors
Dielectric strength:	IEC 243	20 MV/m
*Flame retardancy:	ASTM D876 UL 224 (All tube flame test)	Duration of burning 30 s max
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: 5 MPa (min) Ultimate elongation: 200% (min)
	Test fluids:	Aircraft fuel to ISO1817 liquid B Phosphate ester ISO1817 liquid 103 Lubricating oil ISO1817 liquid 101

*Not clear product (X).

For full product performance details consult Raychem Specification RW 2053.

Specifications

Raychem Specification RW 2053.

Material Safety Data Sheet available on request.

Installation instructions available on request.

Raychem and RNF-3000 are trademarks of Tyco Electronics Corporation.

Users should independently evaluate the suitability of the product for their application.

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